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of Engineers
Savannah District

Fort Benning Georgia

Solicitation Number

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Combined Arms Collective Training Facility (CACTF)

Volume III of III – Appendices A through C

FY-05, LI 55103

September 2005

**THIS SOLICITATION IS UNRESTRICTED PURSUANT TO THE
"BUSINESS OPPORTUNITY DEVELOPMENT REFORM ACT OF 1988"
(PUBLIC LAW 100-656)**

**U.S. ARMY ENGINEER DISTRICT, SAVANNAH
CORPS OF ENGINEERS
100 WEST OGLETHORPE AVENUE
SAVANNAH, GEORGIA 31401-3640**

APPENDIX A

Report of Lead-Based Paint and Asbestos Surveys, Buildings 4023 and 4051

**REPORT OF
LEAD-BASED PAINT
AND ASBESTOS SURVEYS**

**BUILDINGS 4023 AND 4051
FORT BENNING, GEORGIA**

Prepared for: Merrick & Company
305 Koger Boulevard, Suite 160
Duluth, Georgia 30096

Date of Issue: May 9, 2005

Prepared by: Unified Testing & Engineering Services, Inc.

UTS File Number: E-MC01-550-001



UNIFIED TESTING & ENGINEERING SERVICES, INC.

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May 3, 2005

Merrick & Company
305 Koger Boulevard, Suite 160
Duluth, Georgia 30096

Attention: Attn: Mr. David A. Luke, P.E.

Subject: Lead-Based Paint and Asbestos Surveys
Buildings 4023 and 4051
Fort Benning, Georgia
UTS Project Number E-MC01-550-001

Dear Mr. Luke:

On April 29, 2005 Unified Testing & Engineering Services, Inc. (UTS) representative James A. Matthews visited the subject site. The purpose of the visit was to sample and analyze typical suspect asbestos containing materials and lead-based paint containing surfaces at the subject buildings. Our survey was performed in general accordance with NESHAP guidelines for asbestos inspection. Please note that our observations and testing are not intended to meet any regulatory or health related requirements, they are intended to provide general locations of identified asbestos containing building materials (ACBM) and lead-based paint in the subject facility.

Lead-based paint and asbestos containing building materials were identified to be present within Building 5023. Building 4051 contained no painted components and no suspect ACBM for sampling.

Upon review of this report, if you have questions or if we may provide additional information, please contact our office at your convenience. We appreciate the opportunity to be of service.

Respectfully submitted,
Unified Testing & Engineering Services, Inc.

A handwritten signature in blue ink that reads 'James A. Matthews'.

James A. Matthews
Georgia Lead-Based Paint Inspector No. 120362
Asbestos Inspector Certificate No. 8449

A handwritten signature in blue ink that reads 'Judith A. Pike'.

Judith A. Pike, P.E.
Senior Project Engineer

TABLE OF CONTENTS

1.0	Introduction	1
2.0	Site Information	1
3.0	Lead-Based Paint Inspection Procedures	1
4.0	Positive Results	2
5.0	Asbestos Inspection and Sampling Strategy	3
6.0	Laboratory Analysis and Results	4
7.0	Notes and Comments	4
8.0	Disclosure Statement.....	5

APPENDICES

Appendix A	Calibration Check Test Results
Appendix B	XRF Computer Printout
Appendix C	Sampling Diagrams for Identification of Lead-Based Paint and Asbestos
Appendix D	Laboratory Analysis and Chain of Custody Records
Appendix E	Photographs
Appendix F	Certifications

REPORT OF LEAD BASED PAINT AND ASBESTOS SURVEYS

BUILDINGS 4023 AND 4051 FORT BENNING, GEORGIA

1.0 INTRODUCTION

Unified Testing & Engineering Services, Inc. (UTS) representatives performed lead-based paint and asbestos surveys for the subject facilities on April 29, 2005. The inspections were performed in an attempt to identify areas of lead based paint and to collect and analyze typical suspect asbestos-containing materials in the buildings prior to demolition. UTS conducted a complete and comprehensive inspection for lead-based paint and asbestos-containing materials in the areas of the building that will be disturbed by construction under the proposed contract. The following report and enclosed data provides a summary of the findings of this survey. Please note that UTS did not inspect or survey the subject facility for any environmental concerns other than the lead based paint and asbestos and that the inspections were limited to Buildings 4023 and 4051.

2.0 SITE INFORMATION

Building 4023 is a slab on grade wood frame construction with a shingled roof. Building 4051 is a wood frame structure with tin siding and roofing. The date of construction for the buildings is unknown.

3.0 LEAD-BASED PAINT INSPECTION PROCEDURES

On April 29, 2005, UTS representative James A. Matthews mobilized to the subject facility. Utilizing a Niton XL Model 309 XRF unit, Serial Number 6243 Mr. Matthews performed an inspection of the interior and exterior surfaces of the facilities.

The Lead Based Paint XRF Test Results found in Appendix B indicate the results delivered by the Niton Model 309 XRF manufacturer's programming format for positive or negative results based upon HUD guidelines for LBP. HUD considers an XRF test indicating paint in concentrations of 1.0 milligrams per square centimeter (mg/square cm) or greater as positive; concentrations less than 1.0 mg/ square cm are considered negative. The actual lead content results are provided in the column labeled PbL. In test where lead was indicated, the XRF was operated to a precision of + or - 0.1 mg/square cm. Locations of components tested are designated as sides A, B, C and D, with Side A being the side of the structure containing the main entrance. Sides B, C and D are labeled in a clockwise manner around the structure to describe testing locations of both exterior and interior components.

During the inspection Mr. Matthews made two calibration checks of the Niton XL. Each calibration check included three test shots for a total of 6 tests during the day. The inspection included 66 more tests, for a total of 72 XRF tests performed at the subject property. Appendix A is the calibration check test results. Appendix B contains the XRF computer printing which lists the XRF number, location, and results of each test. A diagram of the sampling locations which tested positive for lead-based paint is included in Appendix C.

4.0 POSITIVE RESULTS

The following table summarizes locations of lead-based paint containing components detected in concentrations of 1.0 mg/cm squared or greater as defined by HUD. For specific test locations and results, please refer to Appendix B of this report.

TABLE 1: IDENTIFIED LEAD BASED PAINT CONTAINING COMPONENTS BUILDING 4023			
Substrate	Component	Location	Color
Wood	Siding	Exterior Side A	Off-White
Wood	Siding	Exterior Side B	Off-White
Wood	Siding	Exterior Side C	Off-White
Wood	Window Sill	Exterior Side B	Off-White
Wood	Door Jamb	Exterior Side A	Brown
Wood	Door Jamb	Exterior Side A	Off-White
Wood	Exposed Wall Stud	Room 1 Side C	White
Wood	Chair Rail	Bath Side A	White
Wood	Window Sash	Room 1 Side B	Brown
Concrete	Wall	Room 1 Side B	Yellow
Concrete	Floor	Room 1	Yellow
Wood	Window Stool	Bath 2 Side D	White

TABLE 2: IDENTIFIED LEAD BASED PAINT CONTAINING COMPONENTS BUILDING 4051			
Substrate	Component	Location	Color
No painted components present for testing			

5.0 ASBESTOS SURVEY AND SAMPLING STRATEGY

A walk-through visual inspection for suspected ACM was performed within the proposed renovation area of subject facility. Materials suspected of containing asbestos were noted as to type and location. The suspect asbestos-containing materials (SACM) sampled are as follows:

TABLE 3: SAMPLED SUSPECT ASBESTOS MATERIALS BUILDING 4023		
Sample No.	Material Identification	Location of Material
FB1-1	12" x 12" Beige Floor Tile	Room 2
FB1-2	12" x 12" Beige Floor Tile	Room 2
FB1-3	12" x 12" Beige Floor Tile	Bath 2
FB1-4	12" x 12" Beige Floor Tile	Room 3
FB1-5	12" x 12" Beige Floor Tile	Room 4
FB2-1	2' x 4' Ceiling Tile	Room 2
FB2-2	2' x 4' Ceiling Tile	Room 2
FB2-3	2' x 4' Ceiling Tile	Room 3
FB3-1	2' x 2' Ceiling Tile	Room 4
FB3-2	2' x 2' Ceiling Tile	Room 4
FB3-3	2' x 2' Ceiling Tile	Room 4
FB4-1	Drywall	Room 2
FB4-2	Drywall	Room 3
FB4-3	Drywall	Room 4
FB4-4	Drywall	Room 1
FB4-5	Drywall	Room 1 Ceiling
FB5-1	Roofing Material	Exterior Roof
FB5-2	Roofing Material	Exterior Roof
FB5-3	Roofing Material	Exterior Roof
FB6-1	Window Caulk	Exterior Window
FB6-2	Window Caulk	Exterior Window
FB6-3	Window Caulk	Exterior Window

TABLE 4: SAMPLED SUSPECT ASBESTOS MATERIALS BUILDING 4051		
Sample No.	Material Identification	Location of Material
No suspect asbestos containing materials were present for sampling		

6.0 LABORATORY ANALYSIS AND RESULTS

Suspect asbestos bulk samples obtained were shipped with an associated chain of custody to Materials Analytical Services (MAS) in Suwanee, Georgia. MAS is accredited under the National Institute of Standards and Technology (NIST) National Voluntary Laboratory Accreditation Program (NVLAP); MAS's NVLAP Lab Code is 101235-0. Samples were analyzed using Polarized Light Microscopy (PLM) and dispersion staining. This procedure is described in an Appendix to EPA CFR 763. Polarized light microscopy is a technique that is used to identify asbestos fibers by their shape and unique optical properties. The percentage composition of each bulk sample was visually estimated. This is EPA's preferred method for analyzing bulk material samples for asbestos.

Detailed results of our laboratory analysis for each SACM sample are included in Appendix D to this report. A sampling diagram is provided in Appendix C. Appendix E contains photographs of the subject facilities. The following materials were identified or assumed to be asbestos-containing materials:

TABLE 5: IDENTIFIED ASBESTOS CONTAINING MATERIALS					
Sample Number	Material Identification	Location of Material	Asbestos Content	Quantity	NESHAP Class
FB1-1	Mastic associated with 12" x 12" Beige Floor Tile	Room 2	6% Chrysotile	Approx. 522 ft ²	Non-Friable, Category 1
FB1-2	Mastic associated with 12" x 12" Beige Floor Tile	Room 2	5% Chrysotile		Non-Friable, Category 1
FB1-5	Mastic associated with 12" x 12" Beige Floor Tile	Room 4	12% Chrysotile	Approx. 135 ft ²	Non-Friable, Category 1
FB6-1	Window Caulk	Exterior Window	3% Chrysotile	Approx. 224 lf	Friable, RACM
FB6-2	Window Caulk	Exterior Window	3% Chrysotile		Friable, RACM
FB6-3	Window Caulk	Exterior Window	3% Chrysotile		Friable, RACM
Notes:	1. Samples FB1-1 and FB1-2 are located within the same room; estimated quantity of material to be removed in the room is listed with Sample FB1-1. 2. All window caulking materials are similar; estimated quantity of material to be abated from the entire building is listed with sample FB6-1.				

In conclusion, note that our survey was limited to the building materials located associated with Buildings 4023 and 4051.

7.0 NOTES AND COMMENTS

The scope of our service was limited to providing a limited lead based paint and asbestos survey in areas scheduled for renovation. UTS did not perform a lead based paint risk assessment or consultation for this project. Should the testing provided indicate the presence of lead based paint or asbestos you may contact UTS to provide additional services or you may contact one of the following for assistance:

- Local Health Department
- US Environmental Protection Agency
- US Department of Housing and Urban Development
- Nearest Poison Control Center

Please note that lead based paint and asbestos containing materials should not be disturbed without proper training and equipment.

8.0 DISCLOSURE STATEMENT

A copy of this report must be provided to purchasers and made available to new tenants of this property under Federal law (24 CFR part 35 and 40 CFR part 745) before they become obligated under a lease or sales contract. Landlords and sellers are also required to distribute an educational pamphlet and include standard warning language in their leases or sales contracts to ensure that parents have the information they need to protect their children from lead-based paint hazards.

- END OF REPORT -

APPENDIX A

CALIBRATION CHECK TEST RESULTS

CALIBRATION CHECK TEST RESULTS

Address: Fort Benning Bldg 4023

Device: Niton XL 309 XRF Serial No. ☒ U901NR6243

☐ U611NR6279

Contractor Name: Unified Testing & Engineering Services, Inc. Date: 4/29/05

Inspector Name: James A. Matthews (LIN0802M0674) Signature: [Signature]

NIST SRM Used 1.0 mg/cm²

Calibration Check Tolerance Used ±.1 mg/cm²

First Calibration Check

NIST SRM			First Average	Difference Between First Average and NIST SRM*
First Reading	Second Reading	Third Reading		
1.0	1.0	1.0		

#1514

#1515

#1516

Second Calibration Check

NIST SRM			Second Average	Difference Between Second Average and NIST SRM*
First Reading	Second Reading	Third Reading		
1.1	1.1	1.1		

#1583

#1584

#1585

Third Calibration Check (if required)

NIST SRM			Third Average	Difference Between Third Average and NIST SRM*
First Reading	Second Reading	Third Reading		

Fourth Calibration Check (if required)

NIST SRM			Fourth Average	Difference Between Fourth Average and NIST SRM*
First Reading	Second Reading	Third Reading		

* If the difference of the Calibration Check Average from the NIST SRM film value is greater than the specified Calibration Check Tolerance for this device, consult the manufacturer's recommendations to bring the instrument back into control. Retest all testing combinations tested since the last successful Calibration Check Test.

Rev. 2/05

APPENDIX B

XRF COMPUTER PRINTOUT

Serial #XL309-U901NR6243 Site: Building 4023 Fort Benning, Ga. Date: 4/29/2005

No	XLNo	Side	Room	Source	Sub	Feat	Cnd	Clr	Ssec	Date/Time	DI	Result	Pbc ± Prec
1	1514		Calibrate						20.1	4/29/2005 10:52:53	1.0	POS	0.99 ± 0.14
2	1515		Calibrate						20.1	4/29/2005 10:53:36	1.0	POS	1.00 ± 0.12
3	1516		Calibrate						20.1	4/29/2005 10:54:19	1.0	POS	1.03 ± 0.14
4	1517	A	Outside	Ext Wall	Wood	Siding	Peeling	Off White	9.8	4/29/2005 10:55:55	3.2	POS	2.16 ± 0.71
5	1518	B	Outside	Ext Wall	Wood	Siding	Peeling	Off White	3.2	4/29/2005 10:56:29	10.0	POS	15.77 ± 6.48
6	1519	C	Outside	Ext Wall	Wood	Siding	Peeling	Off White	3.2	4/29/2005 10:56:54	10.0	POS	15.03 ± 6.28
7	1520	D	Outside	Ext Wall	Wood	Siding	Peeling	Off White	3.2	4/29/2005 10:57:47	1.0	NEG	0.00 ± 0.09
8	1521	D	Outside	Ext Wall	Wood	Siding	Peeling	Off White	20.6	4/29/2005 10:58:03	1.2	NEG	0.80 ± 0.14
9	1522	B	Outside	Window	Wood	Sill Ext	Peeling	Off White	11.7	4/29/2005 10:59:27	1.6	POS	1.52 ± 0.32
10	1523	A	Outside	Window	Wood	Sill Ext	Peeling	Brown	3.1	4/29/2005 11:00:20	1.0	NEG	0.00 ± 0.01
11	1524	A	Outside	Door	Wood	Jamb	Solid	Brown	9.6	4/29/2005 11:00:41	2.0	POS	1.68 ± 0.44
12	1525	A	Outside	Door	Wood	Door	Solid	Brown	16.1	4/29/2005 11:01:12	1.4	NEG	0.91 ± 0.18
13	1526	A	Outside	Door	Wood	Jamb	Cracked	Off White	10.0	4/29/2005 11:02:00	10.0	POS	4.23 ± 1.57
14	1527	A	Outside	Door	Wood	Door	Cracked	Off White	10.0	4/29/2005 11:02:24	2.9	NEG	0.15 ± 0.24
15	1528	A	Outside	Ext Wall	Wood	Trim Up	Cracked	Off White	3.2	4/29/2005 11:03:00	1.0	NEG	0.00 ± 0.13
16	1529	A	Room 1	Wall	Wood	Wall Up	Solid	White	3.2	4/29/2005 11:05:28	1.0	NEG	0.07 ± 0.06
17	1530	B	Room 1	Wall	Drywall	Wall Up	Solid	White	5.6	4/29/2005 11:05:50	1.0	NEG	0.00 ± 0.08
18	1531	C	Room 1	Wall	Drywall	Wall Up	Solid	White	3.3	4/29/2005 11:06:20	1.0	NEG	0.00 ± 0.09
19	1532	C	Room 1	Wall	Wood	Wall Up	Solid	White	40.5	4/29/2005 11:06:36	1.0	NEG	0.00 ± 0.01
20	1533	C	Room 1	Wall	Wood	Stud	Solid	White	7.3	4/29/2005 11:08:15	2.7	POS	3.25 ± 1.00
21	1534	D	Room 1	Wall	Wood	Wall Up	Solid	White	10.1	4/29/2005 11:08:44	4.2	NEG	0.35 ± 0.38
22	1535	A	Room 1	Wall	Wood	Baseboard	Solid	Brown	3.1	4/29/2005 11:09:35	1.0	NEG	0.00 ± 0.02
23	1536	A	Room 1	Wall	Wood	Chair rail	Solid	Brown	3.1	4/29/2005 11:09:47	1.0	NEG	0.03 ± 0.03
24	1537	C	Room 1	Door	Wood	Jamb	Solid	Brown	3.1	4/29/2005 11:10:09	1.0	NEG	0.00 ± 0.12
25	1538	C	Room 1	Door	Wood	Door	Solid	Brown	3.1	4/29/2005 11:10:21	2.5	NEG	0.02 ± 0.28
26	1539	C	Room 1	Bookcase	Wood	Frame	Solid	Brown	3.0	4/29/2005 11:10:39	1.0	NEG	0.03 ± 0.03
27	1540	A	Room 2	Wall	Drywall	Wall Up	Solid	Brown	21.9	4/29/2005 11:11:21	10.0	NEG	0.22 ± 0.69
28	1541	B	Room 2	Wall	Drywall	Wall Up	Solid	Brown	10.3	4/29/2005 11:12:09	1.1	NEG	-0.60 ± 1.05
29	1542	C	Room 2	Wall	Drywall	Wall Up	Solid	Brown	7.9	4/29/2005 11:12:37	1.0	NEG	0.00 ± 0.01
30	1543	D	Room 2	Wall	Drywall	Wall Up	Solid	Brown	10.3	4/29/2005 11:13:02	4.2	NEG	0.02 ± 0.05
31	1544	B	Room 2	Door	Wood	Jamb	Solid	Brown	3.1	4/29/2005 11:13:35	1.0	NEG	0.00 ± 0.13
32	1545	B	Room 2	Door	Wood	Door	Solid	Brown	3.1	4/29/2005 11:13:48	1.0	NEG	0.00 ± 0.02
33	1546	C	Room 2	Window	Wood	Casing Rht	Solid	Brown	3.1	4/29/2005 11:14:08	1.0	NEG	0.00 ± 0.02
34	1547	C	Room 2	Window	Wood	Sash Up	Solid	White	3.2	4/29/2005 11:14:28	1.0	NEG	0.00 ± 0.13
35	1548	C	Room 2	Wall	Wood	Chair rail	Solid	White	3.1	4/29/2005 11:15:26	1.6	NEG	0.01 ± 0.26
36	1549	A	Bath 1	Wall	Wood	Chair rail	Solid	White	12.6	4/29/2005 11:16:28	1.0	POS	2.76 ± 1.23
37	1550	B	Bath 1	Wall	Wood	Chair rail	Solid	White	5.6	4/29/2005 11:17:03	1.0	NEG	0.00 ± 0.08
38	1551	C	Bath 1	Wall	Wood	Chair rail	Solid	White	5.6	4/29/2005 11:17:29	1.0	NEG	0.00 ± 0.11
39	1552	D	Bath 1	Wall	Wood	Chair rail	Solid	White	12.6	4/29/2005 11:17:49	4.0	NEG	0.03 ± 0.13
40	1553	B	Bath 1	Door	Wood	Jamb	Solid	Brown	3.2	4/29/2005 11:18:27	1.0	NEG	0.00 ± 0.14
41	1554	B	Bath 1	Door	Wood	Door	Solid	Brown	12.6	4/29/2005 11:18:40	1.0	NEG	-0.40 ± 0.67
42	1555	B	Room 1	Window	Wood	Stool	Solid	Brown	3.1	4/29/2005 11:19:40	1.6	NEG	0.01 ± 0.04
43	1556	B	Room 1	Window	Wood	Sash Up	Solid	Brown	7.1	4/29/2005 11:19:53	2.8	POS	3.26 ± 1.07
44	1557	B	Room 1	Wall	Concrte	Wall Lwr	Solid	Yellow	2.9	4/29/2005 11:20:35	1.4	POS	5.10 ± 1.93
45	1558		Room 1		Concrte	Floor	Solid	Yellow	2.9	4/29/2005 11:21:04	1.1	POS	2.75 ± 0.80
46	1559	A	Bath 2	Wall	Drywall	Wall Up	Solid	White	3.2	4/29/2005 11:21:39	1.0	NEG	0.03 ± 0.11
47	1560	B	Bath 2	Wall	Wood	Wall Up	Solid	White	7.7	4/29/2005 11:21:57	6.3	NEG	0.17 ± 0.35
48	1561	C	Bath 2	Wall	Drywall	Wall Up	Solid	White	3.2	4/29/2005 11:22:23	1.5	NEG	0.08 ± 0.28
49	1562	D	Bath 2	Wall	Drywall	Wall Up	Solid	White	21.1	4/29/2005 11:22:36	5.9	NEG	0.67 ± 0.42
50	1563	A	Bath 2	Wall	Wood	Baseboard	Solid	White	3.2	4/29/2005 11:23:27	1.0	NEG	0.00 ± 0.02
51	1564	D	Bath 2	Window	Wood	Stool	Solid	White	21.2	4/29/2005 11:23:44	3.5	POS	1.45 ± 0.38
52	1565	D	Bath 2	Window	Wood	Sash Up	Solid	White	3.2	4/29/2005 11:24:30	1.0	NEG	0.00 ± 0.18
53	1566	B	Bath 2	Door	Wood	Jamb	Solid	Brown	3.1	4/29/2005 11:24:53	1.5	NEG	0.06 ± 0.33
54	1567	B	Bath 2	Door	Wood	Door	Solid	Brown	10.2	4/29/2005 11:25:08	5.3	NEG	-0.36 ± 0.76
55	1568	A	Room 3	Wall	Drywall	Wall Up	Solid	White	12.6	4/29/2005 11:26:31	1.0	NEG	0.00 ± 0.05
56	1569	B	Room 3	Wall	Drywall	Wall Up	Solid	White	5.6	4/29/2005 11:27:41	1.0	NEG	0.00 ± 0.08
57	1570	C	Room 3	Wall	Drywall	Wall Up	Solid	White	10.3	4/29/2005 11:28:00	1.0	NEG	0.00 ± 0.01
58	1571	D	Room 3	Wall	Drywall	Wall Up	Solid	White	10.3	4/29/2005 11:28:32	1.0	NEG	0.00 ± 0.01
59	1572	A	Room 3	Window	Wood	Stool	Solid	Brown	3.1	4/29/2005 11:29:15	1.0	NEG	0.00 ± 0.14
60	1573	D	Room 3	Bookcase	Wood	Shelf	Solid	Brown	3.1	4/29/2005 11:29:36	1.0	NEG	0.00 ± 0.01
61	1574	A	Room 3	Door	Wood	Jamb	Solid	Brown	3.1	4/29/2005 11:29:56	1.0	NEG	0.00 ± 0.14
62	1575	A	Room 3	Door	Wood	Door	Solid	Brown	3.1	4/29/2005 11:30:08	1.0	NEG	0.00 ± 0.01
63	1576	A	Room 4	Wall	Drywall	Wall Up	Solid	White	5.6	4/29/2005 11:30:41	1.0	NEG	0.00 ± 0.01

No	XLNo	Side	Room	Source	Sub	Feat	Cnd	Clr	Ssec	Date/Time	DI	Result	Pbc ± Prec
64	1577	B	Room 4	Wall	Drywall	Wall Up	Solid	White	5.6	4/29/2005 11:31:00	1.0	NEG	0.00 ± 0.01
65	1578	C	Room 4	Wall	Drywall	Wall Up	Solid	White	5.6	4/29/2005 11:31:20	1.0	NEG	0.00 ± 0.10
66	1579	D	Room 4	Wall	Drywall	Wall Up	Solid	White	5.6	4/29/2005 11:31:39	1.0	NEG	0.00 ± 0.07
67	1580	D	Room 4	Window	Wood	Stool	Solid	Brown	3.2	4/29/2005 11:32:06	1.0	NEG	0.01 ± 0.02
68	1581	B	Room 4	Door	Wood	Jamb	Solid	Brown	3.1	4/29/2005 11:32:26	1.0	NEG	0.00 ± 0.02
69	1582	B	Room 4	Door	Wood	Door	Solid	Brown	3.1	4/29/2005 11:32:43	1.0	NEG	0.00 ± 0.14
70	1583		Calibrate						22.3	4/29/2005 11:34:53	1.1	POS	1.13 ± 0.15
71	1584		Calibrate						20.2	4/29/2005 11:35:42	1.1	POS	1.07 ± 0.15
72	1585		Calibrate						26.6	4/29/2005 11:36:26	1.1	POS	1.09 ± 0.13

APPENDIX C

SAMPLING DIAGRAMS

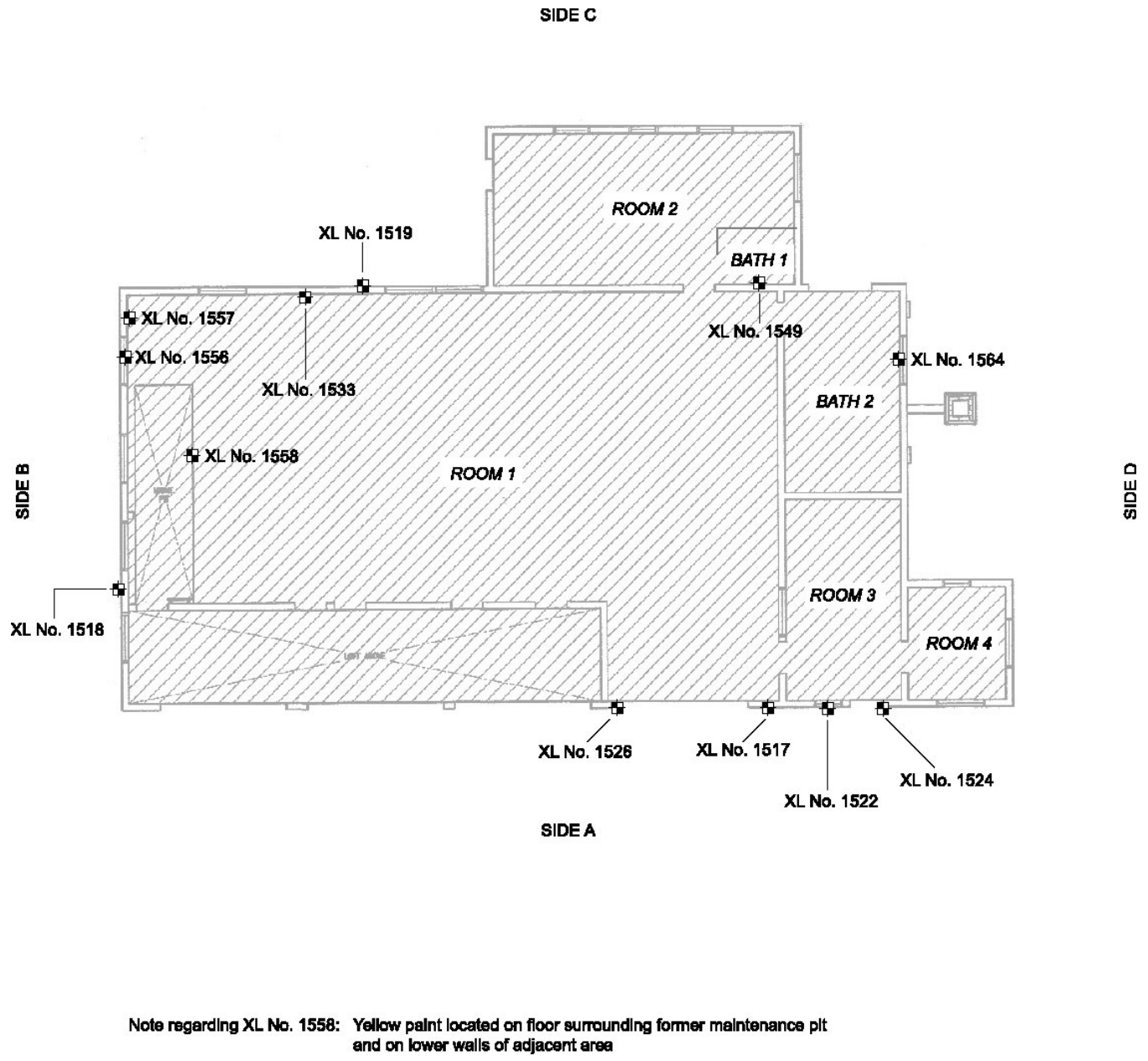
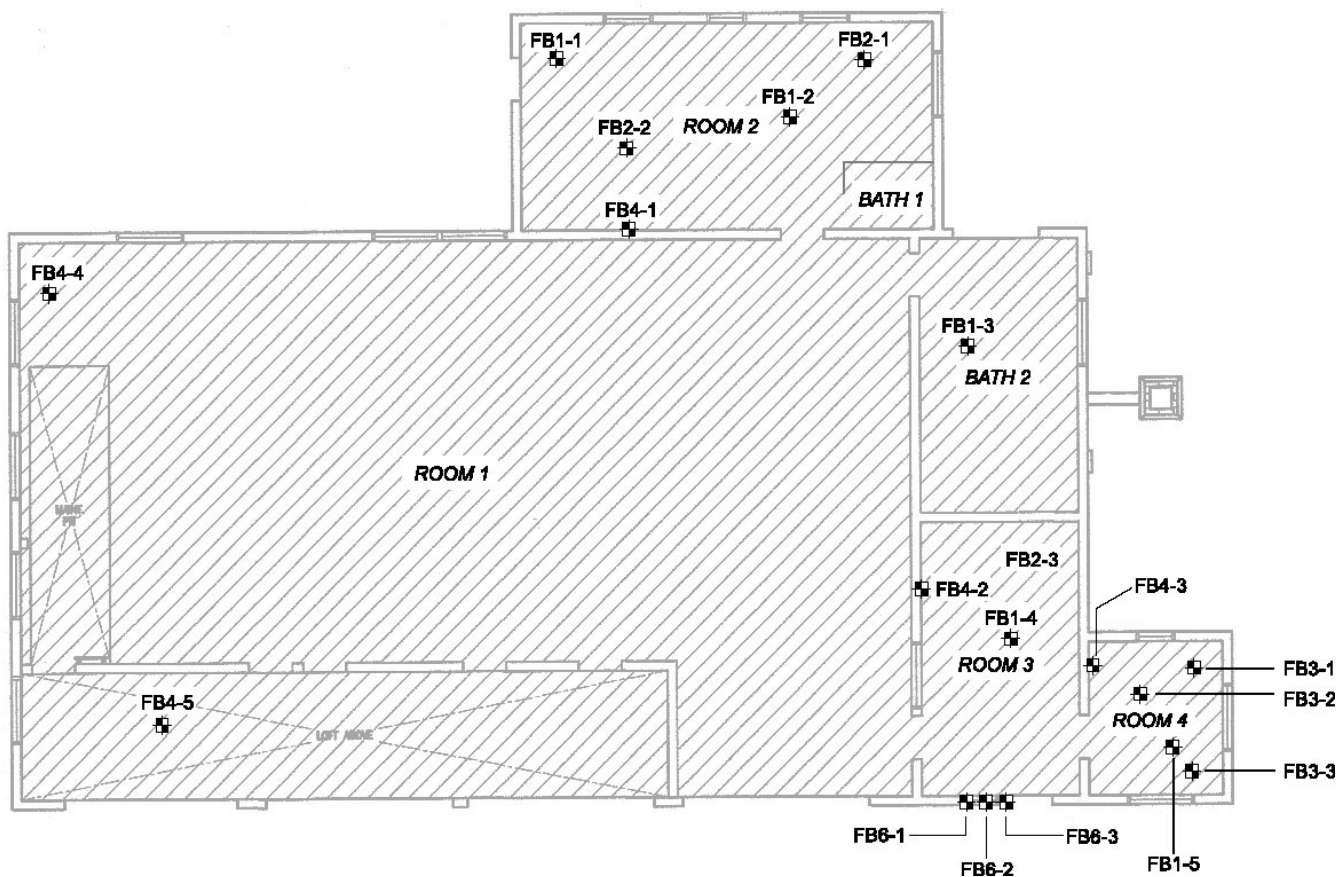


DIAGRAM FOR IDENTIFICATION OF LEAD-BASED PAINT CONTAINING COMPONENTS

PROJECT NAME:	Building 4023 Fort Benning, Georgia	DATE OF INSPECTION:	April 29, 2005
		UTS PROJECT No.	E-MC01-550-001
	Drawing Not to Scale	DRAWING SOURCE:	Merrick & Co.



UNIFIED TESTING & ENGINEERING SERVICES, INC.
304 CANYON PARK DRIVE • PELHAM, AL 35124 • PHONE • 205-664-3641 • FAX 205-621-7136



SAMPLING DIAGRAM

FOR IDENTIFICATION OF SUSPECT ASBESTOS-CONTAINING BUILDING MATERIALS

PROJECT NAME: Building 4023
Fort Benning, Georgia

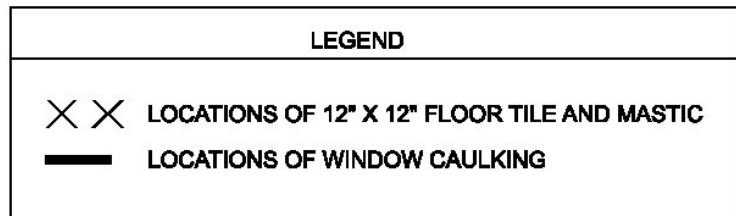
DATE OF INSPECTION: April 29, 2005
UTS PROJECT No. E-MC01-550-001

Drawing Not to Scale

DRAWING SOURCE: Merrick & Co.



UNIFIED TESTING & ENGINEERING SERVICES, INC.
304 CANYON PARK DRIVE • PELHAM, AL 35124 • PHONE • 205-664-3641 • FAX 205-621-7136



UNIFIED TESTING & ENGINEERING SERVICES, INC.
304 CANYON PARK DRIVE • PELHAM, AL 35124 • PHONE • 205-664-3641 • FAX 205-621-7136

APPENDIX D

LABORATORY ANALYSIS AND CHAIN OF CUSTODY RECORD

ATLANTA

Corporate Headquarters
3945 Lakefield Court
Suwanee, GA 30024

(770) 866-3200 FAX (770) 866-3259



MATERIALS ANALYTICAL SERVICES, INC.

May 02, 2005

LOS ANGELES

3020 Old Ranch Parkway

Suite 300

Seal Beach, CA 90740

(562) 799-5530

FAX (562) 799-5531

PHOENIX

903 South Rural Road

#101-388

Tempe, AZ 85281

(480) 239-0602

FAX (602) 470-2655

RALEIGH

616 Hutton Street

Suite 101

Raleigh, NC 27606

(919) 829-7041

FAX (919) 829-5518

SUNNYVALE

285 North Wolfe Road

Suite 101

Sunnyvale, CA 94085

(408) 737-9700

FAX (408) 737-9791

WASHINGTON DC

107 Ridgely Avenue

Suite 13A

Annapolis, MD 21401

(410) 280-0505

FAX (410) 269-2828

Tony Matthews
Unified Testing Services, Inc.
304 Canyon Park Drive
Pelhan, AL 35124

RE: PLM Sample Analysis
E-MC01-550-001 / Fort Benning Bldg. 4023

Dear Mr. Matthews:

Enclosed is a summary and the analysis of the samples which were delivered to MAS on May 02, 2005. It was requested that we analyze these samples using polarized light microscopy (PLM) to determine the percentage of asbestos.

The samples were analyzed in accordance with EPA document 600/R-93/116, 'Method for the Determination of Asbestos in Bulk Building Materials'. These analysis results relate only to the specific items analyzed. Any partial reproduction of the Bulk Analysis Report may not be made without the consent of Materials Analytical Services. This report may not be used to imply product endorsement or certification by Materials Analytical Services, the National Voluntary Laboratory Accreditation Program (EPA), or the U.S. Government.

Materials Analytical Services appreciates this opportunity to have been of service to you. We look forward to working with you on future projects.

Sincerely,

William B. Egeland, P.G.

Enc. M35835

MATERIALS ANALYTICAL SERVICES, INC.

3945 LAKEFIELD COURT

SUWANEE, GA 30024

(770) 866-3200

Client: United Testing Services, Inc.

Job Name: Fort Benning Bldg. 4023

Job Number: E-MC01-550-001

Reviewer: *Kevin Smith*

Summary of Results of analysis by Polarized Light Microscopy (PLM)

CLIENT #	MAS ID # - SPL #	LOCATION	MATERIAL	ANALYSIS
FB1-1	M35835-001a	Room 2	12" x 12" Floor Tile- FT	NO ASBESTOS OBSERVED
FB1-1	M35835-001b	Room 2	12" x 12" Floor Tile- MASTIC	6% Chrysotile
FB1-2	M35835-002a	Room 2	12" x 12" Floor Tile- FT	NO ASBESTOS OBSERVED
FB1-2	M35835-002b	Room 2	12" x 12" Floor Tile- MASTIC	5% Chrysotile
FB1-3	M35835-003a	Bath 2	12" x 12" Floor Tile- FT	NO ASBESTOS OBSERVED
FB1-3	M35835-003b	Bath 2	12" x 12" Floor Tile- MASTIC	NO ASBESTOS OBSERVED
FB1-4	M35835-004a	Room 3	12" x 12" Floor Tile- FT	NO ASBESTOS OBSERVED
FB1-4	M35835-004b	Room 3	12" x 12" Floor Tile- MASTIC	NO ASBESTOS OBSERVED
FB1-5	M35835-005a	Room 4	12" x 12" Floor Tile- FT	NO ASBESTOS OBSERVED
FB1-5	M35835-005b	Room 4	12" x 12" Floor Tile- MASTIC	12% Chrysotile
FB2-1	M35835-006	Room 2	2' x 4' Ceiling Tile	NO ASBESTOS OBSERVED
FB2-2	M35835-007	Room 2	2' x 4' Ceiling Tile	NO ASBESTOS OBSERVED
FB2-3	M35835-008	Room 3	2' x 4' Ceiling Tile	NO ASBESTOS OBSERVED
FB3-1	M35835-009	Room 4	2' x 2' Ceiling Tile	NO ASBESTOS OBSERVED
FB3-2	M35835-010	Room 4	2' x 2' Ceiling Tile	NO ASBESTOS OBSERVED
FB3-3	M35835-011	Room 4	2' x 2' Ceiling Tile	NO ASBESTOS OBSERVED
FB4-1	M35835-012	Room 2	Drywall	NO ASBESTOS OBSERVED
FB4-2	M35835-013	Room 3	Drywall	NO ASBESTOS OBSERVED
FB4-3	M35835-014	Room 4	Drywall	NO ASBESTOS OBSERVED
FB4-4	M35835-015	Room 1- Wall	Drywall	NO ASBESTOS OBSERVED
FB4-5	M35835-016	Room 1- Ceiling	Drywall	NO ASBESTOS OBSERVED
FB5-1	M35835-017	Roofing Material	Roof	NO ASBESTOS OBSERVED
FB5-2	M35835-018	Roofing Material	Roof	NO ASBESTOS OBSERVED
FB5-3	M35835-019	Roofing Material	Roof	NO ASBESTOS OBSERVED
FB6-1	M35835-020	Ext. Window	Window Caulk	3% Chrysotile
FB6-2	M35835-021	Ext. Window	Window Caulk	3% Chrysotile
FB6-3	M35835-022	Ext. Window	Window Caulk	3% Chrysotile

The samples were analyzed in accordance with EPA document 600/R-93/116, "Method for the Determination of Asbestos in Bulk Building Materials". This report relates only to items tested as received. may not be used to claim endorsement or certification by Materials Analytical Services, the National Voluntary Laboratory Accreditation Program (EPA), or the U.S. Government. This report may not be reproduced except in full without the approval of Materials Analytical Services, Incorporated (NVLAP # 101235).

M35835

CHAIN OF CUSTODY



Co. Name: UTS
 Address: 304 CANYON PARK DRIVE
 PELHAM AL 35124

Phone: 205.664.3641
 Fax: 205.621.7136

3945 Lakefield Court
 Suwanee, Georgia 30024
 PH: (770) 866-3200
 FAX: (770) 866-3259

Project #:
 Project Name:
 Work Area Description:
 Project Representative:
 MAS Project Number:

E-MC01-550-001
 Fort Benning Bldg 4023
 Tony Matthews
 M35835
 Sheet 1 of 1

SCARLETT@

TURNAROUND TIME: Same Day / Roll

unifiedtesting

EMAIL RESULTS TO: SCARLETT@UNIFIEDTESTING.COM

Date	Sample No.	Sample Location	Sample Type
4/29	FB1-1	Rm 2	12" x 12" Floor Tile
	FB1-2	Rm 2	
	FB1-3	Bath 2	
	FB1-4	Rm 3	
	FB1-5	Rm 4	
	FB2-1	Rm 2	2' x 4' Ceiling Tile
	FB2-2	Rm 2	
	FB2-3	Rm 3	
	FB3-1	Rm 4	2' x 2' Ceiling Tile
	FB3-2	Rm 4	
	FB3-3	Rm 4	
	FB4-1	Rm 2	Dry wall
	FB4-2	Rm 3	
	FB4-3	Rm 4	
	FB4-4	Rm 1 - Wall	
	FB4-5	Rm 1 - Ceiling	
	FB5-1	Roof	Roofing Material
	FB5-2	Roof	
	FB5-3	Roof	
	FB6-1	Ext. Win.	Window Caulk
	FB6-2	" "	
	FB6-3	" "	

Chain of Custody	Initial Ship Date	Mode of Transfer	Log-in Date	Received By:
First Transfer By:	Tony Matthews	FE Ex	5/02/05	Kevin Simpson 1400
Second Transfer By:				
Third Transfer By:				

**MATERIALS ANALYTICAL SERVICES, INC.
PLM ANALYSIS**

Proj#-Spl# M35835 - 001a **Analyst** Kevin Simpson **Date** 5/2/2005
ClientName Unified Testing Services, Inc. **ClientSpl** FB1-1
Location Room 2
Type_Mat 12" x 12" Floor Tile- FT
Gross Gray floor tile
Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology			
Pleochroism			
Refract Index			
Sign^			
Extinction			
Birefringence			
Melt			
Fiber Name			

ASBESTOS MINERALS

EST. VOL. %

NO ASBESTOS OBSERVED

Chrysotile.....
 Amosite.....
 Crocidolite.....
 Tremolite/Actinolite.....
 Anthophyllite.....

OTHER FIBROUS COMPONENTS

Cellulose -ribbony

5

NON FIBROUS COMPONENTS

 Mineral grains
 Binder

 X
 X

Binder Description

Comments X = Materials detected.

MATERIALS ANALYTICAL SERVICES, INC.
PLM ANALYSIS

Proj#-Spl# M35835 - 001b **Analyst** Kevin Simpson **Date** 5/2/2005
ClientName Unified Testing Services, Inc. **ClientSpl** FB1-1
Location Room 2
Type_Mat 12" x 12" Floor Tile- MASTIC
Gross Black mastic
Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology	<u>Wavy</u>		
Pleochroism	<u>None</u>		
Refract Index	<u>1.556 / 1.549</u>		
Sign^	<u>+</u>		
Extinction	<u>Parallel</u>		
Birefringence	<u>Low</u>		
Melt	<u>No</u>		
Fiber Name	<u>Chrysotile</u>		

ASBESTOS MINERALS

EST. VOL. %

Chrysotile.....
 Amosite.....
 Crocidolite.....
 Tremolite/Actinolite.....
 Anthophyllite.....

6

OTHER FIBROUS COMPONENTS

Cellulose -ribbony

3

NON FIBROUS COMPONENTS

Binder

X

Binder Description

Comments X = Materials detected.

**MATERIALS ANALYTICAL SERVICES, INC.
PLM ANALYSIS**

Proj#-Spl# M35835 - 002a **Analyst** Kevin Simpson **Date** 5/2/2005
ClientName Unified Testing Services, Inc. **ClientSpl** FB1-2
Location Room 2
Type_Mat 12" x 12" Floor Tile- FT
Gross Gray floor tile
Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology			
Pleochroism			
Refract Index			
Sign^			
Extinction			
Birefringence			
Melt			
Fiber Name			

ASBESTOS MINERALS

EST. VOL. %

NO ASBESTOS OBSERVED

Chrysotile.....
 Amosite.....
 Crocidolite.....
 Tremolite/Actinolite.....
 Anthophyllite.....

OTHER FIBROUS COMPONENTS

Cellulose -ribbony

7

NON FIBROUS COMPONENTS

 Mineral grains
 Binder

 X
 X

Binder Description

Comments X = Materials detected.

**MATERIALS ANALYTICAL SERVICES, INC.
PLM ANALYSIS**

Proj#-Spl# M35835 - 002b **Analyst** Kevin Simpson **Date** 5/2/2005
ClientName Unified Testing Services, Inc. **ClientSpl** FB1-2
Location Room 2
Type_Mat 12" x 12" Floor Tile- MASTIC
Gross Black mastic
Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology	<u>Wavy</u>		
Pleochroism	<u>None</u>		
Refract Index	<u>1.558 / 1.547</u>		
Sign^	<u>+</u>		
Extinction	<u>Parallel</u>		
Birefringence	<u>Low</u>		
Melt	<u>No</u>		
Fiber Name	<u>Chrysotile</u>		

ASBESTOS MINERALS

EST. VOL. %

Chrysotile.....
 Amosite.....
 Crocidolite.....
 Tremolite/Actinolite.....
 Anthophyllite.....

5

OTHER FIBROUS COMPONENTS

Cellulose -ribbony

5

NON FIBROUS COMPONENTS

Binder

X

Binder Description

Comments X = Materials detected.

**MATERIALS ANALYTICAL SERVICES, INC.
PLM ANALYSIS**

Proj#-Spl# M35835 - 003a **Analyst** Kevin Simpson **Date** 5/2/2005
ClientName Unified Testing Services, Inc. **ClientSpl** FB1-3
Location Bath 2
Type_Mat 12" x 12" Floor Tile- FT
Gross Gray floor tile
Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology			
Pleochroism			
Refract Index			
Sign^			
Extinction			
Birefringence			
Melt			
Fiber Name			

ASBESTOS MINERALS

EST. VOL. %

NO ASBESTOS OBSERVED

Chrysotile.....
 Amosite.....
 Crocidolite.....
 Tremolite/Actinolite.....
 Anthophyllite.....

OTHER FIBROUS COMPONENTS

Cellulose -ribbony

7

NON FIBROUS COMPONENTS

 Mineral grains
 Binder

X
X

Binder Description _____

Comments X = Materials detected.

MATERIALS ANALYTICAL SERVICES, INC.
PLM ANALYSIS

Proj#-Spl# M35835 - 003b Analyst Kevin Simpson Date 5/2/2005
 ClientName Unified Testing Services, Inc. ClientSpl FB1-3
 Location Bath 2
 Type_Mat 12" x 12" Floor Tile- MASTIC
 Gross Black mastic
 Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology			
Pleochroism			
Refract Index			
Sign^			
Extinction			
Birefringence			
Melt			
Fiber Name			

ASBESTOS MINERALS

EST. VOL. %

NO ASBESTOS OBSERVED

Chrysotile.....
 Amosite.....
 Crocidolite.....
 Tremolite/Actinolite.....
 Anthophyllite.....

OTHER FIBROUS COMPONENTS

Cellulose -ribbony

10

NON FIBROUS COMPONENTS

 Binder

 X

Binder Description

Comments X = Materials detected.

MATERIALS ANALYTICAL SERVICES, INC.
PLM ANALYSIS

Proj#-Spl# M35835 - 004a Analyst Kevin Simpson Date 5/2/2005
 ClientName Unified Testing Services, Inc. ClientSpl FB1-4
 Location Room 3
 Type_Mat 12" x 12" Floor Tile- FT
 Gross Gray floo tile
 Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology			
Pleochroism			
Refract Index			
Sign^			
Extinction			
Birefringence			
Melt			
Fiber Name			

ASBESTOS MINERALS

EST. VOL. %

NO ASBESTOS OBSERVED

Chrysotile.....
 Amosite.....
 Crocidolite.....
 Tremolite/Actinolite.....
 Anthophyllite.....

OTHER FIBROUS COMPONENTS

NON FIBROUS COMPONENTS

 Mineral grains
 Binder

 X
 X

Binder Description _____

Comments X = Materials detected.

MATERIALS ANALYTICAL SERVICES, INC.
PLM ANALYSIS

Proj#-Spl# M35835 - 004b **Analyst** Kevin Simpson **Date** 5/2/2005
ClientName Unified Testing Services, Inc. **ClientSpl** FB1-4
Location Room 3
Type_Mat 12" x 12" Floor Tile- MASTIC
Gross Black mastic
Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology			
Pleochroism			
Refract Index			
Sign^			
Extinction			
Birefringence			
Melt			
Fiber Name			

ASBESTOS MINERALS

EST. VOL. %

NO ASBESTOS OBSERVED

Chrysotile.....
 Amosite.....
 Crocidolite.....
 Tremolite/Actinolite.....
 Anthophyllite.....

OTHER FIBROUS COMPONENTS

Cellulose -ribbony

8

NON FIBROUS COMPONENTS

 Binder

 X

Binder Description _____

Comments X = Materials detected.

MATERIALS ANALYTICAL SERVICES, INC.
PLM ANALYSIS

Proj#-Spl# M35835 - 005a **Analyst** Kevin Simpson **Date** 5/2/2005
ClientName Unified Testing Services, Inc. **ClientSpl** FB1-5
Location Room 4
Type_Mat 12" x 12" Floor Tile- FT
Gross Gray floor tile
Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology			
Pleochroism			
Refract Index			
Sign^			
Extinction			
Birefringence			
Melt			
Fiber Name			

ASBESTOS MINERALS

EST. VOL. %

NO ASBESTOS OBSERVED

Chrysotile.....
 Amosite.....
 Crocidolite.....
 Tremolite/Actinolite.....
 Anthophyllite.....

OTHER FIBROUS COMPONENTS

NON FIBROUS COMPONENTS

 Mineral grains
 Binder

 X
 X

Binder Description _____

Comments X = Materials detected.

MATERIALS ANALYTICAL SERVICES, INC.
PLM ANALYSIS

Proj#-Spl# M35835 - 005b **Analyst** Kevin Simpson **Date** 5/2/2005
ClientName Unified Testing Services, Inc. **ClientSpl** FB1-5
Location Room 4
Type_Mat 12" x 12" Floor Tile- MASTIC
Gross Black mastic
Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology	<u>Wavy</u>		
Pleochroism	<u>None</u>		
Refract Index	<u>1.558 / 1.547</u>		
Sign^	<u>+</u>		
Extinction	<u>Parallel</u>		
Birefringence	<u>Low</u>		
Melt	<u>No</u>		
Fiber Name	<u>Chrysotile</u>		

ASBESTOS MINERALS

EST. VOL. %

Chrysotile	<u>12</u>
Amosite	_____
Crocidolite	_____
Tremolite/Actinolite	_____
Anthophyllite	_____

OTHER FIBROUS COMPONENTS

Cellulose -ribbony	<u>4</u>
_____	_____
_____	_____
_____	_____
_____	_____

NON FIBROUS COMPONENTS

_____	_____
_____	_____
_____	_____
Binder	<u>X</u>

Binder Description _____

Comments X = Materials detected.

MATERIALS ANALYTICAL SERVICES, INC.
PLM ANALYSIS

Proj#-Spl# M35835 - 006 **Analyst** Kevin Simpson **Date** 5/2/2005
ClientName Unified Testing Services, Inc. **ClientSpl** FB2-1
Location Room 2
Type_Mat 2' x 4' Ceiling Tile
Gross Beige and white ceiling tile.
Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology			
Pleochroism			
Refract Index			
Sign^			
Extinction			
Birefringence			
Melt			
Fiber Name			

ASBESTOS MINERALS

EST. VOL. %

NO ASBESTOS OBSERVED

Chrysotile.....
 Amosite.....
 Crocidolite.....
 Tremolite/Actinolite.....
 Anthophyllite.....

OTHER FIBROUS COMPONENTS

Cellulose -ribbony
 Min wool -isotropic
 Fib glass -isotropic

35
 15
 10

NON FIBROUS COMPONENTS

Perlite
 Binder

X
 X

Binder Description _____

Comments X = Materials detected.

MATERIALS ANALYTICAL SERVICES, INC.
PLM ANALYSIS

Proj#-Spl# M35835 - 007 Analyst Kevin Simpson Date 5/2/2005
 ClientName Unified Testing Services, Inc. ClientSpl FB2-2
 Location Room 2
 Type_Mat 2' x 4' Ceiling Tile
 Gross Beige and white ceiling tile.
 Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology			
Pleochroism			
Refract Index			
Sign^			
Extinction			
Birefringence			
Melt			
Fiber Name			

ASBESTOS MINERALS

EST. VOL. %

NO ASBESTOS OBSERVED

Chrysotile.....
 Amosite.....
 Crocidolite.....
 Tremolite/Actinolite.....
 Anthophyllite.....

OTHER FIBROUS COMPONENTS

Cellulose -ribbony
 Min wool -isotropic
 Fib glass -isotropic

35

15

10

NON FIBROUS COMPONENTS

Perlite

X

Binder

X

Binder Description _____

Comments X = Materials detected.

MATERIALS ANALYTICAL SERVICES, INC.
PLM ANALYSIS

Proj#-Spl# M35835 - 008 **Analyst** Kevin Simpson **Date** 5/2/2005
ClientName Unified Testing Services, Inc. **ClientSpl** FB2-3
Location Room 3
Type_Mat 2' x 4' Ceiling Tile
Gross Beige and white ceiling tile.
Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology			
Pleochroism			
Refract Index			
Sign^			
Extinction			
Birefringence			
Melt			
Fiber Name			

ASBESTOS MINERALS

EST. VOL. %

NO ASBESTOS OBSERVED

Chrysotile.....
 Amosite.....
 Crocidolite.....
 Tremolite/Actinolite.....
 Anthophyllite.....

OTHER FIBROUS COMPONENTS

Cellulose -ribbony
 Min wool -isotropic
 Fib glass -isotropic

35
 15
 10

NON FIBROUS COMPONENTS

Perlite
 Binder

X
 X

Binder Description _____

Comments X = Materials detected.

MATERIALS ANALYTICAL SERVICES, INC.
PLM ANALYSIS

Proj#-Spl#	M35835 - 009	Analyst	Kevin Simpson	Date	5/2/2005
ClientName	Unified Testing Services, Inc.	ClientSpl	FB3-1		
Location	Room 4				
Type_Mat	2' x 2' Ceiling Tile				
Gross Visual	Beige and white ceiling tile.				

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

	1	2	3
Morphology			
Pleochroism			
Refract Index			
Sign^			
Extinction			
Birefringence			
Melt			
Fiber Name			

ASBESTOS MINERALS

EST. VOL. %

NO ASBESTOS OBSERVED

Chrysotile.....
Amosite.....
Crocidolite.....
Tremolite/Actinolite.....
Anthophyllite.....

OTHER FIBROUS COMPONENTS

Cellulose -ribbony
Min wool -isotropic
Fib glass -isotropic

35

15

10

$$\begin{array}{r} 35 \\ 15 \\ \hline 10 \end{array}$$

NON FIBROUS COMPONENTS

Perlite

X

Binder

X

$$\frac{X}{X}$$

Binder Description

Comments X = Materials detected.

X = Materials detected.

MATERIALS ANALYTICAL SERVICES, INC.
PLM ANALYSIS

Proj#-Spl# M35835 - 010 **Analyst** Kevin Simpson **Date** 5/2/2005
ClientName Unified Testing Services, Inc. **ClientSpl** FB3-2
Location Room 4
Type_Mat 2' x 2' Ceiling Tile
Gross Visual Beige and white ceiling tile.

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology			
Pleochroism			
Refract Index			
Sign^			
Extinction			
Birefringence			
Melt			
Fiber Name			

ASBESTOS MINERALS

EST. VOL. %

NO ASBESTOS OBSERVED

Chrysotile.....
Amosite.....
Crocidolite.....
Tremolite/Actinolite.....
Anthophyllite.....

OTHER FIBROUS COMPONENTS

Cellulose -ribbony
Min wool -isotropic
Fib glass -isotropic

35

15

10

NON FIBROUS COMPONENTS

Perlite

X

Binder

X

Binder Description

Comments X = Materials detected.

MATERIALS ANALYTICAL SERVICES, INC.
PLM ANALYSIS

Proj#-Spl# M35835 - 011 Analyst Kevin Simpson Date 5/2/2005
 ClientName Unified Testing Services, Inc. ClientSpl FB3-3
 Location Room 4
 Type_Mat 2' x 2' Ceiling Tile
 Gross Beige and white ceiling tile.
 Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology			
Pleochroism			
Refract Index			
Sign^			
Extinction			
Birefringence			
Melt			
Fiber Name			

ASBESTOS MINERALS

EST. VOL. %

NO ASBESTOS OBSERVED

Chrysotile.....
 Amosite.....
 Crocidolite.....
 Tremolite/Actinolite.....
 Anthophyllite.....

OTHER FIBROUS COMPONENTS

Cellulose -ribbony
 Min wool -isotropic
 Fib glass -isotropic

35
 15
 10

NON FIBROUS COMPONENTS

Perlite
 Binder

X
 X

Binder Description _____

Comments X = Materials detected.

**MATERIALS ANALYTICAL SERVICES, INC.
PLM ANALYSIS**

Proj#-Spl# M35835 - 012 **Analyst** Kevin Simpson **Date** 5/2/2005
ClientName Unified Testing Services, Inc. **ClientSpl** FB4-1
Location Room 2
Type_Mat Drywall
Gross Wallboard / joint compound
Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology			
Pleochroism			
Refract Index			
Sign^			
Extinction			
Birefringence			
Melt			
Fiber Name			

ASBESTOS MINERALS

EST. VOL. %

NO ASBESTOS OBSERVED

Chrysotile.....
 Amosite.....
 Crocidolite.....
 Tremolite/Actinolite.....
 Anthophyllite.....

OTHER FIBROUS COMPONENTS

Cellulose -ribbony

12

NON FIBROUS COMPONENTS

 Binder

 X

Binder Description _____

Comments X = Materials detected.

MATERIALS ANALYTICAL SERVICES, INC.
PLM ANALYSIS

Proj#-Spl# M35835 - 013 **Analyst** Kevin Simpson **Date** 5/2/2005
ClientName Unified Testing Services, Inc. **ClientSpl** FB4-2
Location Room 3
Type_Mat Drywall
Gross Wallboard / joint compound
Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology			
Pleochroism			
Refract Index			
Sign^			
Extinction			
Birefringence			
Melt			
Fiber Name			

ASBESTOS MINERALS

EST. VOL. %

NO ASBESTOS OBSERVED

Chrysotile.....
 Amosite.....
 Crocidolite.....
 Tremolite/Actinolite.....
 Anthophyllite.....

OTHER FIBROUS COMPONENTS

Cellulose -ribbony

12

NON FIBROUS COMPONENTS

 Binder

 X

Binder Description

Comments X = Materials detected.

MATERIALS ANALYTICAL SERVICES, INC.
PLM ANALYSIS

Proj#-Spl# M35835 - 014 Analyst Kevin Simpson Date 5/2/2005
 ClientName Unified Testing Services, Inc. ClientSpl FB4-3
 Location Room 4
 Type_Mat Drywall
 Gross Wallboard / joint compound
 Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology			
Pleochroism			
Refract Index			
Sign^			
Extinction			
Birefringence			
Melt			
Fiber Name			

ASBESTOS MINERALS

EST. VOL. %

NO ASBESTOS OBSERVED

Chrysotile.....
 Amosite.....
 Crocidolite.....
 Tremolite/Actinolite.....
 Anthophyllite.....

OTHER FIBROUS COMPONENTS

Cellulose -ribbony

12

NON FIBROUS COMPONENTS

 Binder

X

Binder Description _____

Comments X = Materials detected.

MATERIALS ANALYTICAL SERVICES, INC.
PLM ANALYSIS

Proj#-Spl# M35835 - 015 Analyst Kevin Simpson Date 5/2/2005
 ClientName Unified Testing Services, Inc. ClientSpl FB4-4
 Location Room 1- Wall
 Type_Mat Drywall
 Gross Wallboard / joint compound
 Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology			
Pleochroism			
Refract Index			
Sign^			
Extinction			
Birefringence			
Melt			
Fiber Name			

ASBESTOS MINERALS

EST. VOL. %

NO ASBESTOS OBSERVED

Chrysotile.....
 Amosite.....
 Crocidolite.....
 Tremolite/Actinolite.....
 Anthophyllite.....

OTHER FIBROUS COMPONENTS

Cellulose -ribbony

12

NON FIBROUS COMPONENTS

 Binder

X

Binder Description _____

Comments X = Materials detected.

**MATERIALS ANALYTICAL SERVICES, INC.
PLM ANALYSIS**

Proj#-Spl# M35835 - 016 **Analyst** Kevin Simpson **Date** 5/2/2005
ClientName Unified Testing Services, Inc. **ClientSpl** FB4-5
Location Room 1- Ceiling
Type_Mat Drywall
Gross Wallboard / joint compound
Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology			
Pleochroism			
Refract Index			
Sign^			
Extinction			
Birefringence			
Melt			
Fiber Name			

ASBESTOS MINERALS

EST. VOL. %

NO ASBESTOS OBSERVED

Chrysotile.....
 Amosite.....
 Crocidolite.....
 Tremolite/Actinolite.....
 Anthophyllite.....

OTHER FIBROUS COMPONENTS

Cellulose -ribbony

12

NON FIBROUS COMPONENTS

 Binder

 X

Binder Description _____

Comments X = Materials detected.

MATERIALS ANALYTICAL SERVICES, INC.
PLM ANALYSIS

Proj#-Spl# M35835 - 017 **Analyst** Kevin Simpson **Date** 5/2/2005
ClientName Unified Testing Services, Inc. **ClientSpl** FB5-1
Location Roofing Material
Type_Mat Roof
Gross Black roofing shingle
Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology			
Pleochroism			
Refract Index			
Sign^			
Extinction			
Birefringence			
Melt			
Fiber Name			

ASBESTOS MINERALS

EST. VOL. %

NO ASBESTOS OBSERVED

Chrysotile.....
 Amosite.....
 Crocidolite.....
 Tremolite/Actinolite.....
 Anthophyllite.....

OTHER FIBROUS COMPONENTS

Fib glass -isotropic

8

NON FIBROUS COMPONENTS

 Mineral grains
 Binder

 X
 X

Binder Description

Comments X = Materials detected.

MATERIALS ANALYTICAL SERVICES, INC.
PLM ANALYSIS

Proj#-Spl# M35835 - 018 **Analyst** Kevin Simpson **Date** 5/2/2005
ClientName Unified Testing Services, Inc. **ClientSpl** FB5-2
Location Roofing Material
Type_Mat Roof
Gross Black roofing shingle
Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology			
Pleochroism			
Refract Index			
Sign^			
Extinction			
Birefringence			
Melt			
Fiber Name			

ASBESTOS MINERALS

EST. VOL. %

NO ASBESTOS OBSERVED

Chrysotile.....
 Amosite.....
 Crocidolite.....
 Tremolite/Actinolite.....
 Anthophyllite.....

OTHER FIBROUS COMPONENTS

Fib glass -isotropic

8

NON FIBROUS COMPONENTS

 Mineral grains
 Binder

 X
 X

Binder Description _____

Comments X = Materials detected.

MATERIALS ANALYTICAL SERVICES, INC.
PLM ANALYSIS

Proj#-Spl# M35835 - 019 **Analyst** Kevin Simpson **Date** 5/2/2005
ClientName Unified Testing Services, Inc. **ClientSpl** FB5-3
Location Roofing Material
Type_Mat Roof
Gross Black roofing shingle
Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology			
Pleochroism			
Refract Index			
Sign^			
Extinction			
Birefringence			
Melt			
Fiber Name			

ASBESTOS MINERALS

EST. VOL. %

NO ASBESTOS OBSERVED

Chrysotile.....
 Amosite.....
 Crocidolite.....
 Tremolite/Actinolite.....
 Anthophyllite.....

OTHER FIBROUS COMPONENTS

Fib glass -isotropic

8

NON FIBROUS COMPONENTS

 Mineral grains
 Binder

 X
 X

Binder Description _____

Comments X = Materials detected.

MATERIALS ANALYTICAL SERVICES, INC.
PLM ANALYSIS

Proj#-Spl#	M35835 - 020	Analyst	Kevin Simpson	Date	5/2/2005
ClientName	Unified Testing Services, Inc.	ClientSpl	FB6-1		
Location	Ext. Window				
Type_Mat	Window Caulk				
Gross Visual	Off-white caulking material.				

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology	Wavy		
Pleochroism	None		
Refract Index	1.555 / 1.549		
Sign^	+		
Extinction	Parallel		
Birefringence	Low		
Melt	No		
Fiber Name	Chrysotile		

ASBESTOS MINERALS

EST. VOL. %

Chrysotile.....
Amosite.....
Crocidolite.....
Tremolite/Actinolite.....
Anthophyllite.....

3

OTHER FIBROUS COMPONENTS

Cellulose -ribbony

2

NON FIBROUS COMPONENTS

Mineral grains
Binder

X
X

X

Binder Description	

Comments X = Materials detected.

MATERIALS ANALYTICAL SERVICES, INC.
PLM ANALYSIS

Proj#-Spl# M35835 - 021 **Analyst** Kevin Simpson **Date** 5/2/2005
ClientName Unified Testing Services, Inc. **ClientSpl** FB6-2
Location Ext. Window
Type_Mat Window Caulk
Gross Off-white caulking material.
Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology	<u>Wavy</u>		
Pleochroism	<u>None</u>		
Refract Index	<u>1.555 / 1.549</u>		
Sign^	<u>+</u>		
Extinction	<u>Parallel</u>		
Birefringence	<u>Low</u>		
Melt	<u>No</u>		
Fiber Name	<u>Chrysotile</u>		

ASBESTOS MINERALS

EST. VOL. %

Chrysotile	<u>3</u>
Amosite	_____
Crocidolite	_____
Tremolite/Actinolite	_____
Anthophyllite	_____

OTHER FIBROUS COMPONENTS

Cellulose -ribbony	<u>2</u>
_____	_____
_____	_____
_____	_____
_____	_____

NON FIBROUS COMPONENTS

_____	_____
_____	_____
Mineral grains	<u>X</u>
Binder	<u>X</u>

Binder Description _____

Comments X = Materials detected.

MATERIALS ANALYTICAL SERVICES, INC.
PLM ANALYSIS

Proj#-Spl# M35835 - 022 **Analyst** Kevin Simpson **Date** 5/2/2005
ClientName Unified Testing Services, Inc. **ClientSpl** FB6-3
Location Ext. Window
Type_Mat Window Caulk
Gross Off-white caulking material.
Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology	Wavy		
Pleochroism	None		
Refract Index	1.555 / 1.549		
Sign^	+		
Extinction	Parallel		
Birefringence	Low		
Melt	No		
Fiber Name	Chrysotile		

ASBESTOS MINERALS

EST. VOL. %

Chrysotile.....	3
Amosite.....	
Crocidolite.....	
Tremolite/Actinolite.....	
Anthophyllite.....	

OTHER FIBROUS COMPONENTS

Cellulose -ribbony	2

NON FIBROUS COMPONENTS

Mineral grains	X
Binder	X

Binder Description _____

Comments X = Materials detected.

APPENDIX E

PHOTOGRAPHS

PHOTOGRAPH LOG

LEAD-BASED PAINT AND ASBESTOS INSPECTIONS
BUILDINGS 4023 AND 4051
FORT BENNING, GEORGIA

PHOTOGRAPH NUMBER	PHOTOGRAPH REVIEW AND COMMENTS
1	Building 4023 Exterior Side A
2	Building 4023 Exterior Side B
3	Building 4023 Exterior Side C
4	Building 4023 Exterior Side D
5	Building 4023 12" x 12" Beige Floor Tile
6	Building 4023 2' x 4' Ceiling Tile
7	Building 4023 2' x 2' Ceiling Tile
8	Building 4023 Drywall
9	Building 4023 Roofing Material
10	Building 4023 Window Caulk
11	Building 4051 Exterior Side A
12	Building 4051 Exterior Side B
13	Building 4051 Exterior Side C
14	Building 4051 Exterior Side D
15	Building 4051 Building Interior
16	Building 4051 Building Interior



Photograph 1



Photograph 2



Photograph 3



Photograph 4



Photograph 5



Photograph 6



Photograph 7



Photograph 8



Photograph 9



Photograph 10



Photograph 11



Photograph 12



Photograph 13



Photograph 14



Photograph 15



Photograph 16

APPENDIX F

CERTIFICATIONS



State of Georgia
Department of Natural Resources

ENVIRONMENTAL PROTECTION DIVISION

This is to certify that

Unified Testing & Engineering Services, Inc.

Having Satisfied the Requirements of The Georgia Lead Poisoning Prevention Act, O.C.G.A. 31-41-1, et seq and the Rules for Lead-Based Paint Abatement, Certification, and Accreditation, Chapter 391-3-24

Is Hereby Licensed As a

Certified Lead-Based Paint Activities Firm

ENVIRONMENTAL PROTECTION
DIVISION EXPIRATION DATE
September 3, 2005

To Perform Lead-Based Paint Activities
Within the State of Georgia
Under Certification Number
10-0904-300

ENVIRONMENTAL PROTECTION
DIVISION
10-0904-300

This Certificate may be subject to revocation, suspension, modification or amendment by the Director for cause including evidence of noncompliance; or for any misrepresentation made in the application, supporting data entered therein or attached thereto, or any subsequent submittals or supporting data; or any alterations affecting the ability to perform duties properly. **Certification holder agrees to use only Georgia Certified individuals to conduct any authorizations granted by this certification**

Issuance Date: **September 3, 2004**
Expiration Date: **September 3, 2005**

Issued By:

Robert M. Gwin

Robert M. Gwin, Program Manager
Lead-Based Paint & Asbestos Program

Georgia Department of Natural Resources

4244 International Parkway, Suite 114, Atlanta, Georgia 30354
Lonice C. Barrett, Commissioner
Harold F. Reheis, Director
Environmental Protection Division
404/362-2675

RADIOACTIVE MATERIALS PROGRAM GEORGIA RADIOACTIVE MATERIALS LICENSE

Pursuant to the Georgia Radiation Control Act O.C.G.A. 31-13 (H.B. 947) 1990 and the Georgia Department of Natural Resources Rules and Regulations, designated Chapter 391-3-17, and in reliance on statements and representations heretofore made by the licensee designated below, a license is hereby issued authorizing such licensee to transfer, receive, possess, and use the radioactive material(s) designated below; and to use such radioactive materials for the purpose(s) and at the place(s) designated below. This license is subject to all applicable rules and regulations of the Georgia Department of Natural Resources and orders issued by the Department, now or hereafter in effect, and to any condition specified below.

Page 1 of 7 Pages
License Number GA 1308-1
Amendment Number .10

License (1. Name and 2. Address)

Unified Testing Services, Inc.
525 Webb Industrial Drive, N.E.
Suite B
Marietta, Georgia 30062

3. In accordance with letter dated August 22, 2001, License Number GA 1308-1 is amended in its entirety to read as follows:

4. Expiration Date: January 31, 2006

5. Telephone Number: (770) 428-0444

6. RADIOACTIVE MATERIAL (ELEMENT AND MASS NUMBER)	7. CHEMICAL AND/OR PHYSICAL FORM	8. MAXIMUM QUANTITY LICENSEE MAY POSSESS AT ANY ONE TIME
A. Iridium 192	A. Sealed Source (Amersham Corp Model A424-9)	A. No single source to exceed 140 curies
B. Cobalt 60	B. Sealed Source (Amersham Corp Model A424-18)	B. 33 curies
C. Cadmium 109	C. Sealed Source Models which are registered in accordance with Rule 391-3-17.02(11)(I) or equivalent regulations of the US NRC or another Agreement State	C. No single source to exceed 50 millicuries

Georgia Department of Natural Resources
Radioactive Materials License
Supplementary Sheet

Page 2 of 7 Pages
License Number GA 1308-1
Amendment Number .10

9. AUTHORIZED USE

- A. To be used in an Amersham Corporation, Inc. Model 660B exposure device for industrial radiography and in Amersham Corporation, Inc. Model 650L source changer for storage and replacement of sources.
- B. To be used in Amersham Corporation, Inc. Model 741A exposure device for industrial radiography.
- C. To be used in Niton Corporation XL Model 309 devices for lead in paint analysis.

CONDITIONS

- 10. Radioactive material shall be stored at the licensee's address in Item 2. above. Radioactive material may be used and stored at temporary job sites of the licensee anywhere in the State of Georgia. This condition does not prohibit use in other Agreement States and States under the jurisdiction of the U.S. Nuclear Regulatory Commission under reciprocity procedures which may be established by an Agreement State or the U.S. Nuclear Regulatory Commission.
- 11. The licensee shall comply with the provisions of Georgia Department of Natural Resources Rule 391-3-17-.03, "Standards for Protection Against Radiation. Amended.", Rule 391-3-17-.04, "Special Radiation Safety Requirements for Industrial Radiographic Operations. Amended", Rule 391-3-17-.06, "Transportation of Radioactive Material, Amended.", and Rule 391-3-17-.07., "Notices, Instructions and Reports to Workers: Inspections. Amended".
- 12. In accordance with DNR Board Policy adopted May 27, 1992, the fees associated with this license, fee category C.3, are:

Application Fee	\$3000	Renewal Fee	\$1800
Amendment Fee	\$ 490	Routine Inspection Fee	\$1200
Non-routine Inspection Fee	\$2500	Annual Fee	\$2600

Checks for the fees should be made payable to the Department of Natural Resources, Radioactive Materials Program, and mailed to the following address:

Radioactive Materials Fees
Post Office Box 101161
Atlanta, Georgia 30392

Mail license applications, amendment, and renewal requests the same day as the check to the following address:

Georgia Department of Natural Resources
Radioactive Materials License
Supplementary Sheet

Page 3 of 7 Pages
License Number GA 1308-1
Amendment Number .10

Condition 12 (Continued)

Radioactive Materials Program
4244 International Parkway, Suite 114
Atlanta, Georgia 30354

Inspection fees are payable upon receipt of each invoice from the Department following inspections. Annual fees are billed by the Department at the beginning of each fiscal year.

13. The Radiation Safety Officer in this program shall be Jesse W. Smith.
14. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material with a half-life greater than 120 days to quantities less than those specified in Rule 391-3-17.02(8)(g)4. Exceeding quantities in .02(8)(g)4. requires the submittal of a financial assurance mechanism or a decommissioning funding plan.
15. The licensee shall not transfer possession and/or control of materials or products containing radioactive material as a contaminant except:
 - A. By transfer of waste to an authorized recipient;
 - B. By transfer to a specifically licensed recipient; or
 - C. As provided otherwise by a specific condition of this license pursuant to the requirements of (12) of Rule 391-3-17-.03.
16. All records or copies of records pertaining to Radioactive Material License GA. 1308-1 shall be maintained by the Radiation Safety Office at the address below:

525 Webb Industrial Drive, N.E.
Suite B
Marietta, Georgia 30062
17. Except for maintaining labeling as required by 391-3-17-.03, the licensee shall obtain authorization from the Department before making any changes in the sealed source, device, or source-device combination that would alter the description or specifications as indicated in the Sealed Source Registry issued either by the Department, an Agreement State or, the Nuclear Regulatory Commission.

Conditions 18-28 apply only to items listed in 6.A. and 6.B.

18. A. Mark Dahn, Jesse W. Smith, Norman Ragland, Timothy Love, Dennis Smith, James Lavender, Gene Jones, James Hannon, David Crandall, Gregory Sabatello, Charles Shallit, Quentin Stephens, Kevin Brown and Harry Collins are

Georgia Department of Natural Resources
Radioactive Materials License
Supplementary Sheet

Page 4 of 7 Pages
License Number GA 1308-1
Amendment Number .10

Condition 18 (Continued)

the only persons authorized by this license to act as radiographer's instructors as defined in Rule 391-3-17-.04(2)(l).

- B. Only those persons who have satisfactorily completed Unified Testing Services, Inc's training program as described in procedural manual entitled, Radiation Safety Training Procedure History received with renewal dated December 1, 2000 and revision dated January 23, 2001, and have met the requirements outlined in Rule 391-3-17-.04(6)(a)2. and 1. shall be authorized by this license to act as radiographers and radiographer trainees as defined in 391-3-17-.04(2)(k) and (m) respectively. The licensee shall maintain records of individuals who have completed the training program.
- 19. Sealed sources containing radioactive material shall not be open by the licensee.
 - 20. The licensee is authorized to receive, possess, and use sealed sources of iridium 192 or cobalt 60 where the radioactivity exceeds the maximum amount of radioactivity specified in Item 8 of this license provided:
 - A. Such possession does not exceed the quantity per source specified in Item 8 by more than 20% for iridium 192 or 10% for cobalt-60;
 - B. Records of the licensee show that no more than the maximum amount of radioactivity per source specified in Item 8 of the license was ordered from the supplier or transferor of the radioactive material; and
 - C. The levels of radiation for radiographic exposure devices and storage containers do not exceed those specified in Rule 391-3-17-.04(5).
 - 21. The licensee shall perform required tests for leakage and contamination at intervals not to exceed six months in accordance with rule 391-3-17-.04(5)(e). Analyses of the tests shall be performed by Microtec Services, Inc., Applied Health Physics or by other persons specifically authorized by this Department, the U.S. Nuclear Regulatory Commission, or an Agreement State to perform such tests.
 - 22. The Radiation Safety Officer or a radiographer designated by him, in writing, are authorized to change iridium 192 sealed sources described in Items 6, 7, and 8 of this license using instructions of the distributor of the source changer.
 - 23. Pursuant to Rule 391-3-17-.02, "Licensing of Radioactive Material. Amended," the licensee is authorized to possess, use, transfer, and import up to 999 kilograms of depleted uranium contained as shielding material in the radiography exposure devices and source changers authorized by this license.

Georgia Department of Natural Resources
Radioactive Materials License
Supplementary Sheet

Page 5 of 7 Pages
License Number GA 1308-1
Amendment Number .10

Conditions (Continued)

24. The licensee shall conduct a quarterly physical inventory in accordance with the provisions of Rule 391-3-17-.04(5)(f).
25. All radiographic exposure devices and associated equipment used after January 10, 1996, shall comply with the requirements of 391-3-17-.04(4). The licensee shall maintain records to verify compliance with the Department regulations.
26. The licensee shall inform the Department within three (3) days of work to be performed at temporary job sites within the State of Georgia. If the licensee was not given three (3) days notice for a particular job site the licensee shall provide notification to the Department prior to starting work at the site. The information required in the notification is: the location of the job site; the employing company; a point of contact for the employing company; the dates of the job; and the starting and ending times on the job site.
27. Notwithstanding the requirements of Rule 391-3-17-.04(6)(c), the licensee may use any individual monitoring devices which can be evaluated by a processor accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).
28. Radiographer I. D. Cards which have been issued by the Department, an Agreement State, the Nuclear Regulatory Commission, ASNT, or any other certifying entity shall be available at each job site. A copy of the I. D. Card shall be maintained on file for Department inspection.

Conditions 29-35 apply only to item listed in 6.C.

29. Licensed material shall be used by individuals who have successfully completed the manufacturer's training program, have received copies of the licensee's operating and emergency procedures, and have been designated by the Radiation Safety Officer. Records/Certificates of training shall be maintained for Department inspection.
30. Each portable gauge shall have a lock or outer locked container designed to prevent unauthorized or accidental removal of the sealed source from its shielded position. The gauge or its container must be locked when in transport, storage, or when not under the direct surveillance of an authorized user.
31. Maintenance or repair of portable devices involving removal of sealed sources from the devices or removal or dismantling of shielding may be performed only by the device manufacturer, or by persons specifically authorized by the Department, Agreement

Georgia Department of Natural Resources
Radioactive Materials License
Supplementary Sheet

Page 6 of 7 Pages
License Number GA 1308-1
Amendment Number .10

Condition 31 (Continued)

- States, or the U.S. Nuclear Regulatory Commission to perform such services.
32. Sealed sources containing radioactive material shall not be opened or removed from their respective source holders by the licensee.
 33. The licensee shall conduct a physical inventory every 6 months to account for all licensed material received and possessed under this license. The records of inventories shall be maintained for inspection by the Department and shall include the quantities and kinds of radioactive material, the manufacturer, model and serial number, location of sealed sources, and the date and name of the individual performing the inventory.
 34. The licensee shall perform required tests for leakage or contamination at intervals not to exceed six (6) months in accordance with Rule 391-3-17-.03(6). Analysis of the tests shall be performed by persons specifically authorized by the Department, the U.S. Nuclear Regulatory Commission, or an Agreement State to perform such services.
 35. The licensee shall maintain a current utilization log which shall be kept available for inspection by the Department, for three years from the date of the recorded event, showing for each sealed source the following information:
 - A. A unique identification, such as a serial number, for each portable gauge in which a sealed source is located;
 - B. The identity of the individual to whom assigned;
 - C. Locations where used and dates of use; and
 - D. The date(s) each source is removed from storage and returned to storage.
 36. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with statements, representations, and procedures contained in the following:
 - A. Renewal dated December 1, 2000, and signed by Jesse W. Smith, Radiation Safety Officer, and;
 - B. Letter with attachments dated January 23, 2001, and signed by Jesse W. Smith, Radiation Safety Officer, and;
 - C. Letter with attachments dated August 22, 2001, and signed by Jesse W. Smith, Radiation Safety Officer.

Georgia Department of Natural Resources
Radioactive Materials License
Supplementary Sheet

Page 7 of 7 Pages
License Number GA 1308-1
Amendment Number 12

Condition 36 (continued)

- D. Letter dated August 13, 2003 and signed by Claude D. Davis, Quality Assurance Manager, and;
- E. Letter with attachments dated October 8, 2003 and signed by Claude D. Davis QA Manager and Mark Dahn, Georgia Manager.

The Georgia Department of Natural Resources' regulations shall govern unless the statements, representations and procedures in the licensee's application and correspondence are more restrictive than the regulations.

FOR THE DEPARTMENT OF NATURAL RESOURCES

Date: October 29, 2003

BY: _____


Liz Seale



Certificate of Achievement

This is to certify that

TONY MATTHEWS

*has successfully completed the Manufacturer's Training Course
for the NITON XL Spectrum Analyzer*

*The two-day course covered radiation safety and monitoring,
L x-ray measurement technology, and
machine maintenance of the XL Lead-in-Paint Detector*

949629

Certificate Number

JAN 22-23, 1996

Course Date

Director of Training

A handwritten signature in dark ink, appearing to read "G. P. Rau", written over a horizontal line.

President & CEO - NITON

Georgia Department of Natural Resources

Environmental Protection Division

Lead Based Paint & Asbestos Program

4244 International Parkway, Suite 104, Atlanta, Georgia 30354

Noel Holcomb, Commissioner

Carol A. Couch, Ph.D., Director

404/363-7026

August 27, 2004

Mr. James Matthews
Unified Testing & Engineering Services, Inc.
304 Canyon Park Drive
Pelham, Alabama 35124

Dear Mr. Matthews:

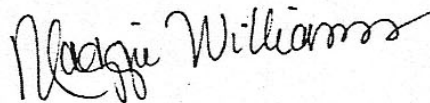
Your application for certification as a Lead-Based Paint Joint Inspector/Risk Assessor has been approved by the Environmental Protection Division in accordance with the Georgia Rules for lead-Based Paint Abatement and certification, Chapter 391-3-24. Your Georgia certification number is 120362. It is reflected on the attached Georgia identification card.

Your Georgia certification is valid through July 28, 2005. In order to maintain certification as a Lead-based Paint Joint Inspector/Risk Assessor, you must renew your certification at least thirty (30) days prior to expiration. Please allow four to six (4-6) weeks for processing of your renewal application. Also, please be aware that Georgia rule now requires you to take a refresher course for this discipline **every two years**.

To obtain renewal forms, a list of accredited training providers, and technical guidance on lead-based paint issues, please refer to our website at <http://www.dnr.state.ga.us/dnr/environ>.

The Georgia EPD thanks you for your compliance with these important rules and regulations.

Sincerely,



Maggie Williams
Technical Assistant
Lead based Paint and Asbestos Program

Cc: File (James Matthews)



Georgia Institute of Technology

This is to certify that

Judith A. Pike

304 Canyon Park Dr.
Pelham, AL 35124
423-88-2047

has attended and satisfactorily passed a skills assessment and examination (given in English and held in Atlanta, Georgia) covering the contents of an initial Continuing Education Course entitled:

Lead-Based Paint Abatement Design Strategies

December 4, 2003

Date of Attendance

December 4, 2003

Examination Date

December 4, 2006

Expiration Date*

* EPA regulations mandate an interim expiration date which is June 4, 2004.

Vicki H. Ainslie

Vicki Hanrahan Ainslie
Lead Program Manager

Vicki H. Ainslie

Vicki Hanrahan Ainslie
Course Director

374

Certificate Number

Georgia Tech Research Institute
Electro-Optics, Environment and Materials Laboratory
Atlanta, Georgia 30332
Phone: (404) 894-7430; FAX: (404) 894-1267

STATE OF GEORGIA
CATHY COX, Secretary of State

State Board of Registration for Engineer & Land Surveyor
Professional Engineer

LICENSE NO. PE026901

Judith Anne Pike
338 Ridge Lane
Shelby AL 35143

EXP DATE - 12/31/2006
Active

626215
Congratulations on your Georgia Professional Registration, issued 05/10/2001. Licenses are renewed every two years, expiring on the last day of the even-numbered years. See Board Rule 180-11 for Continuing Education requirements. See Board Rule 180-06-.03 for Areas of Competency. If your company does not have a Certificate of Authorization, please find that form on our website. Board Rules and Laws, a facsimile of the Board design of the seal (see also below), as well as other valuable information regarding licensure in Georgia may be found on our website. Please keep this office notified of address changes. Please find the address change form on our website. It may be submitted by mail, e-mail or fax. Thank you for choosing Georgia for your professional registration.

Effective, July 1, 2002, there is a charge for the decorative wall certificate that is suitable for framing. If you would like to order one, please submit a separate cashier's check or money order made payable to the Professional Licensing Boards Division. The order form for the wall certificate can be found on the Board's web-site.

Please find below a facsimile of the seal. The seal authorized by the Board for registrants may be of the crimp type and/or rubber stamp facsimile or may be computer generated. The seal design is to be circular in form, the diameter of the outer circle being 1-1/2 inches, and the diameter of the inner circle being one inch. The registration seal design will be furnished each registrant as part of the licensure process.

Office Hours: 8:00 AM – 5:00 PM, Monday – Friday

Phone: 478/207-1450 Fax: 478/207-1456

Website: www.sos.state.ga.us/plb/pels

E-mail: pels@sos.state.ga.us



Judith Anne Pike
338 Ridge Lane
Shelby AL 35143

STATE OF GEORGIA
CATHY COX, Secretary of State
State Board of Registration for Engineer & Land Surveyor
Professional Engineer

LICENSE NO. PE026901

Judith Anne Pike
338 Ridge Lane
Shelby AL 35143

EXP DATE - 12/31/2006
Active

The Environmental Institute

James A. Matthews

Social Security Number - 419-94-0674
304 Canyon Park Drive - Pelham, AL 35124

*Has completed coursework and satisfactorily passed
an examination that meets all criteria required for
EPA/AHERA/ASHARA (TSCA Title II) Approved Reaccreditation
and NESHAP Regulations Training*

Asbestos in Buildings: Inspector Refresher

September 30, 2004

Course Date

8449


Certificate Number

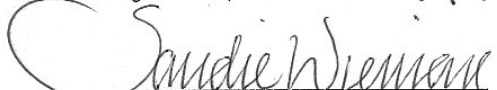
September 30, 2004

Examination Date

September 29, 2005

Expiration Date


David W. Hogue - Principal Instructor & Training Manager


Sandie Wieman - Exam Administrator



The Environmental Institute

Judith Pike

Social Security Number - 423-88-2047

Unified Testing & Engineering Services, Inc. - 304 Canyon Park Drive - Pelham, Alabama 35124

*Has completed coursework and satisfactorily passed
an examination that meets the criteria required for
EPA/AHERA/ASHARA (TSCA Title II) Approved Reaccreditation
and NESHAP Regulations Training*

Asbestos in Buildings: Project Designer Refresher

February 25, 2005

Course Date

2795

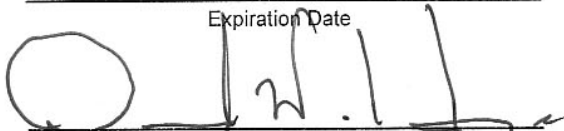
Certificate Number

February 25, 2005

Examination Date

February 24, 2006

Expiration Date



David W. Hogue - Principal Instructor / Training Manager

Rachel G. McCain - Exam Administrator



TEI - 1300 Williams Drive, Suite E - Marietta, Georgia 30066 - (770) 427-3600 - www.tei-atl.com

United States Department of Commerce
National Institute of Standards and Technology



ISO/IEC 17025:1999
ISO 9002:1994

Certificate of Accreditation

MATERIALS ANALYTICAL SERVICES, INC.
SUWANEE, GA

is recognized by the National Voluntary Laboratory Accreditation Program
for satisfactory compliance with criteria set forth in NIST Handbook 150-2001,
all requirements of ISO/IEC 17025:1999, and relevant requirements of ISO 9002:1994.
Accreditation is awarded for specific services, listed on the Scope of Accreditation, for:

BULK ASBESTOS FIBER ANALYSIS

June 30, 2005

Effective through

For the National Institute of Standards and Technology
NVLAP Lab Code: 101235-0



APPENDIX B

**Asbestos Survey, Ft Benning, GA,
Building 4449**

**ASBESTOS SURVEY
FORT BENNING, GEORGIA**

PREPARED BY: Environmental Management Inc
CLIENT: Army Corps of Engineers, Savannah District
BUILDING NO.: 4449
SURVEYOR: DeFazio/Rios
SAMPLING DATE: August 20, 1986

SUMMARY: Building 4449 is used as a storage area and office. Asbestos-containing materials were identified in the floor tile in the storage area and the transite-type wallboard in the mechanical room.

Bulk Sample Results

<u>Sample ID No.</u>	<u>Sample Description</u>	<u>Asbestos Fiber Content Using PLM</u>	<u>FIM Hazard Index Number</u>
4449A1	Storage area, floor tile	1-2% Chrysotile	5.0
4449A2	Office area, floor tile	No asbestos detected	0
4449A3	Mechanical room, transite- type wallboard	35% Chrysotile	<.001

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APPENDIX C
Spirit Summary Table 1 – ROC/AAR

Table 1 - ROC/AAR

SPIRIT Credit Paragraph - Note 4	Maximum Points Achievable	Applicable to this Project/Facility - Note 5	Inherent in Design - Note 1	Material Selection - Note 2	Construction Practices - Note 3	Specification or Drawing Reference	SPIRIT Summary Table	
							PAR	FEATURE
							REMARKS	
CATEGORY 1 - SUSTAINABLE SITES								
1.R1	Sediment/Erosion Control Plan	R	R	X				
1.C1	Avoid undesirable sites	1	1	X				
	Site adjacencies/compatibility	1	1	X				
1.C2	Increase density	1		X				
	Minimize new infrastructure	1	1	X				
1.C3	Brownfield	1		X				
1.C4	Proximity to transit system	1		X				
	Bike racks & showers	1		X				
	Proximity to alternative fuel station	1		X				
	Parking capacity, carpool parking	1	1	X				
1.C5	Limited site disturbance , restoration	1	1	X				
	Reduced footprint	1		X				
1.C6	Stormwater runoff rate	1		X				
	Stormwater treatment	1		X				
1.C7	Reduce site heat islands	1	1	X				
	Reduce roof heat islands	1	1	X				
1.C8	Reduce light pollution	1		X				
1.C9	Optimize site features	1		X				
1.C10	Cluster facilities	1		X				
	Mitigate offsite impacts	1		X				
1.C11	Site Ecology	1		X				
CATEGORY 2 – WATER EFFICIENCY								
2.C1	High efficiency irrigation/recycle site water	1		X				
	No irrigation	1	1	X				
2.C2	Innovative wastewater technologies	1		X				
2.C3	20% Water use reduction	1		X				
	30% Water use reduction	1		X				
CATEGORY 3 – ENERGY AND ATMOSPHERE								
3.R1	Building commissioning	R	R	X				
3.R2	Minimum energy performance	R	R	X				
3.R3	CFC Reduction	R	R	X				
3.C1	Optimize energy performance	20		X				
3.C2	5% Onsite renewable energy	1		X				
	10% onsite renewable energy	1		X				
	15% onsite renewable energy	1		X				
	20% onsite renewable energy	1		X				
3.C3	Additional commissioning	1						
3.C5	Measurement and verification	1		X				
3.C6	Green power	1		X				
3.C7	Distributed generation	1		X				
CATEGORY 4 – MATERIALS AND RESOURCES								
4.R1	Storage & collection of recyclables	R	R	X				
4.C1	Building reuse	3		X				
4.C2	Reduce construction waste 50% (by weight)	1	1		X			
	Reduce construction waste addl. 25%	1	1		X			
4.C3	5% Salvage/reused materials (by cost)	1			X			
	Salvage/reused materials addl. 5%	1			X			
4.C4	25% Materials recycled content (by cost)	1			X			
	25% Additional materials recycled content	1			X			
4.C5	20% (by cost) Regionally manuf. materials (within 500 miles)	1	1		X			
	10% Regionally extracted materials (within 500 miles)	1	1		X			
4.C6	Rapidly renewable materials	1	1		X			
4.C7	Certified wood	1	1		X			
CATEGORY 5 – INDOOR ENVIRONMENTAL QUALITY								
5.R1	Minimum IAQ performance	R	R	X				
5.R2	Environmental tobacco smoke	R	R	X				
5.C1	IAQ monitoring	1		X				
5.C2	Increase ventilation effectiveness	1	1	X				
5.C3	SMACNA/absorptive mtlts/filtration	1			X			
	Flushout/baseline IAQ test	1			X			
5.C4	Adhesive/sealant VOC	1	1	X				
	Green Seal paints & coatings	1	1	X				
	CRI Green Label carpet	1		X				

Table 1 - ROC/AAR

SPIRIT Credit Paragraph - Note 4	SPIRIT Summary Table	Maximum Points Achievable	Applicable to this Project/Facility - Note 5	Inherent in Design - Note 1	Material Selection - Note 2	Construction Practices - Note 3	Specification or Drawing Reference	REMARKS
PAR	FEATURE							
	No urea/formaldehyde resins	1		X				
5.C5	Indoor pollutant source control	1	1	X				
5.C6	Operable windows, perimeter light controls	1	1	X				
	Non-perimeter controls	1		X				
5.C7	ASHRAE thermal comfort stds	1		X				
	Temperature/humidity monitoring	1		X				
5.C8	75% daylighting	1		X				
	90% outdoor view	1		X				
5.C9	Noise control	1	1	X				
5.C10	IAQ management plan	1	1	X				
	CATEGORY 6 – FACILITY DELIVERY PROCESS							
6.C1	Team leader experience	1	1	X				
	Train team	1	1	X				
	Identify project goals	1	1	X				
	Charettes	1	1	X				
	Resolve tradeoffs	2		X				
	Document results	1	1	X				
	CATEGORY 7 – CURRENT MISSION							
7.C1	Develop O&M plan	2		X				
	Durable materials	1		X				
7.C2	Quality indoor environment	1		X				
	Functional work environment	1		X				
	Healthy work environment	1		X				
	CATEGORY 8 – FUTURE MISSIONS							
8.C1	Determine functional life	1		X				
	Determine building life	1		X				
8.C2	Design for future uses	1		X				
	Minimize building size	1		X				
	TOTAL	100	26					
NOTES:								
1. POINTS INDICATED IN THIS COLUMN ARE INHERENT WITHIN THE DESIGN AND NO FURTHER DOCUMENTATION OTHER THAN SUBMITTALS IS REQUIRED BY THE CONTRACTOR.								
2. POINTS INDICATED IN THIS COLUMN ARE DEPENDENT ON CUMULATIVE MATERIAL OR PRODUCT SELECTION AND SHALL BE DOCUMENTED BY THE CONTRACTOR.								
3. POINTS INDICATED IN THIS COLUMN ARE DEPENDENT ON CONSTRUCTION PRACTICES AND SHALL BE DOCUMENTED BY THE CONTRACTOR.								
4. SEE SPIRIT 1.4.1 AND LEED 2.0 REFERENCE GUIDE FOR FULL DESCRIPTION OF REQUIREMENTS FOR EACH ITEM.								
5. ITEMS MARKED WITH AN "R" OR A NUMBER GREATER THAN ZERO ARE PROJECT REQUIREMENTS AND MUST BE DOCUMENTED ACCORDING TO THE COLUMN INDICATED.								